

CLAIM AMENDMENTS

1. (Currently Amended) A method usable with a subterranean well, comprising:
deploying a casing conveyed tool in a subterranean well;
disposing the casing conveyed tool in a casing in the well such that the casing conveyed
tool does not substantially obstruct a central passageway of the casing prior to actuation of the
tool;
communicating a wireless stimulus downhole in the well; and
actuating [[a]] the casing conveyed tool in response to the communication.
2. (Original) The method of claim 1, wherein the actuating comprises
communicating with a perforating gun.
3. (Original) The method of claim 1, wherein the actuating comprises firing a
perforating gun.
4. (Original) The method of claim 1, further comprising:
communicating another wireless stimulus from the tool uphole.
5. (Original) The method of claim 4, further comprising:
communicating said another wireless stimulus to the surface of the well.
6. (Original) The method of claim 4, wherein the tool comprises a perforating gun
and said communicating another wireless signal comprises communicating a signal to confirm
firing of the perforating gun.
7. (Original) The method of claim 1, wherein the communicating comprises:
transmitting an electromagnetic wave from the surface of the well through at least one
formation.

8. (Original) The method of claim 1, wherein the communicating comprises: communicating a seismic wave from the surface of the well through at least one formation.

9. (Original) The method of claim 1, wherein the communicating comprises: communicating an acoustic wave downhole.

10. (Original) The method of claim 9, further comprising: communicating the acoustic wave on at least one of a production tubing and a casing string.

11. (Original) The method of claim 1, wherein the communicating comprises: communicating a pressure pulse downhole.

12. (Original) The method of claim 11, further comprising: communicating the pressure pulse through at least one of a fluid in a production tubing and a fluid in an annulus.

13. (Original) The method of claim 1, further comprising: encoding the stimulus to indicate a command; and decoding the stimulus near the tool to extract the command.

14. (Currently Amended) A system usable with a subterranean well, comprising: a casing conveyed tool located downhole in the well, the casing conveyed tool adapted to be installed with a casing of the well and not substantially obstruct a central passageway of the casing prior to actuation of the tool; and an apparatus to communicate a wireless stimulus downhole to the tool to actuate the tool.

15. (Original) The system of claim 14, wherein the tool comprises a perforating gun.

16. (Original) The system of claim 15, further comprising:
a firing system to fire the perforating gun in response to the wireless stimulus.

17. (Original) The system of claim 14, further comprising:
another apparatus to communicate a wireless stimulus from the tool uphole.

18. (Original) The system of claim 17, wherein said another apparatus is adapted to communicate said another wireless stimulus to the surface of the well.

19. (Currently Amended) The system of claim 17, wherein the tool comprises a perforating gun and said another apparatus ~~circuit~~ is adapted to communicate a wireless stimulus to confirm firing of the perforating gun.

20. (Original) The system of claim 14, wherein the apparatus is adapted to transmit an electromagnetic wave from the surface to the tool through at least one formation.

21. (Original) The system of claim 14, wherein the apparatus is adapted to communicate a seismic wave from the surface through at least one formation.

22. (Original) The system of claim 14, wherein the apparatus is adapted to communicate an acoustic wave downhole to actuate the tool.

23. (Original) The system of claim 22, wherein said apparatus is further adapted to communicate the acoustic wave using at least one of a production tubing and a casing string.

24. (Original) The system of claim 14, where the apparatus is adapted to communicate a pressure pulse downhole to actuate the tool.

25. The system of claim 24, wherein the apparatus is further adapted to communicate the pressure pulse through at least one of a fluid in a production tubing and a fluid in an annulus.

26. (Original) The system of claim 14, wherein the apparatus is further adapted to: encode the stimulus to indicate a command, and decode the stimulus near the tool to extract the command.

27 (Currently Amended) A tool comprising:
a first mechanism adapted to be embedded in a casing string section to perform a downhole function, the first mechanism adapted to not substantially obstruct a central passageway of the casing string section prior to the first mechanism performing the downhole function; and

a second mechanism adapted to respond to a wireless stimulus transmitted from a surface of the well to actuate the first mechanism to cause the first mechanism to perform the downhole function.

28. (Original) The tool of claim 27, wherein the downhole function comprises at least one of firing a perforating gun and operating a valve.

29. (Original) The tool of claim 27, wherein the stimulus comprises at least one of the following:

an acoustic wave, an electromagnetic wave, a seismic wave and a fluid pressure pulse.

30. (Original) The tool of claim 27, wherein the second mechanism is integrated into the casing string section.

31. (Original) The tool of claim 27, further comprising:
a third mechanism to transmit another wireless stimulus uphole to confirm the first mechanism performed the downhole function.